REPORT

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OF THE

COMMITTEE ON QUALIFICATIONS OF TEACHERS

OF THE

FIRST EXAMINATION DIVISION:

WITH THE

QUESTIONS SUBMITTED

AND THE

AVERAGES OBTAINED.

REPORT.

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THE Committee of Examination on the Qualifications of Teachers of the First Examination Division, respectfully report, that agreeably to notice given, an examination for Assistant Teachers in the Public Schools of the First School District, was held on Saturday, October 25th, 1856, at the Grammar School House, N. E. corner Twelfth and Locust streets.

The examination was conducted by a number of the members of the division, assisted by Messrs. Cleavenger, Louderback and Barnwell, Principals of Grammar Schools in the First Division.

Annexed will be found a copy of the questions submitted to the persons examined, with the rules observed in conducting the examination; to which is appended the result, showing the averages obtained by each person in the several branches of study, and their full averages for the whole.

The Committee united in recommending that those examined who have obtained an average of 65 or over, be granted a certificate for the position of *First* Assistant in a Grammar School;

those obtaining 55, and under 65, certificates as *Second* Assistants, and those, 50 and under 55, certificates as *Third* Assistants.

According to these grades, of the 78 applicants that finished the Examination,

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15 are eligible as First Assistants,
24   "   "   Second   "
8   "   "   Third   "

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By order of the Committee on Examinations of the First Examination Division.

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B. M. DUSENBERY,

Chairman.

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R. W. BEATTY, *Secretary.*

[Note.—The questions in Mensuration, Grammar, and Constitution of the United States, were prepared and examined by W. S. Cleavenger, Esq.; those in Parsing, Arithmetic (Examples), and Algebra, by H. Y. Louderback, Esq.; those in Arithmetic (Principles), History, Orthography and Punctuation, by J. G. Barnwell, Esq. The remainder by members of the Committee. In computing the averages, the candidates were marked ciphers in all studies in which the papers were not returned.]

QUESTIONS

For the Examination of Candidates for Teachers of Public Schools; held at the Locust Street School House, Saturday, October 25, 1856.

N. B.—Until the results of the Examination in the several branches are ascertained, and the averages computed, the Candidates will be known to the Examiners only by the numbers on the cards distributed to them. Care should be taken to write the Candidate's number distinctly upon the top of each page, and to write only on one side of the paper, leaving a margin on the left side of the page. Each Candidate will seal and endorse with her number an envelope, containing a statement of her name, age, residence, the length of time she has been engaged in teaching, and any other particulars she may desire to communicate. The Examination in Reading will be oral. That in the other branches will be in writing. The Penmanship will be marked from the paper containing the Orthography exercise. Each set of answers must be put upon a separate paper, and handed up as it is finished, before proceeding to another set of questions. No Applicants under seventeen years of age will be examined; and no one will be permitted to take a copy of the questions from the room before two o'clock. In Arithmetic, Mensuration, and Algebra, the work, and not merely the result, must appear on the paper.

HISTORY OF THE UNITED STATES.

1. What extent of country was claimed by each European nation, and upon what was each claim founded?
2. Describe the movements of Washington and Howe prior to the battle of Brandywine.
3. What circumstances led to Arnold's treason during the Revolution?
4. What were the original territorial limits of the United States as an independent nation, and when and how were the subsequent accessions made?
5. What were the provisions of the Missouri Compromise? When, and under what circumstances, was it adopted?

CONSTITUTION.

1. What were the purposes for which the Constitution was established ?
2. What powers have the minority in each House of Congress ?
3. In what ways may a bill become a law, without the signature of the President ?
4. When may Congress suspend the privilege of the writ of *habeas corpus ?*
5. How is the Vice President chosen, in case of no person having a majority of the votes of the Electors ?

GEOGRAPHY.

1. Name the ten largest rivers of North and South America, in the order of their length.
2. Which of the States of the Union stand first in manufactures ? Which in commerce ?
3. Where is the source of the Mississippi river ; what States does it touch ? and name their capitals.
4. Give the capitals of the seven leading divisions of Europe, and its five principal rivers.
5. Where are the sources of the Nile ?
6. Name and locate five principal ranges of mountains in the Eastern hemisphere.
7. Name five seaport towns of England, in the order of their size.
8. Name the ten largest cities of the world, in the order of their population.

GRAMMAR.

1. How are compound nouns generally composed, and in what way is their plural formed ?
2. To which class of adverbs does *while* belong ? Give examples of its use as other parts of speech.
3. Define *Prosthesis, Enallage* and *Hyperbole;* and give examples illustrative of each.

4. When two adjectives precede a noun, one expressing unity, the other plurality, what is the rule of construction?

5. Correct the errors in the following sentence, and give the rules for its correction: "They had no sooner arrived but they applied themselves to discover the man who they had spoke of."

PARSING.

Parse the words italicized and numbered in the following lines :—

Yet, *taught*[1] by these, confess the Almighty just,
And, *where*[2] you can't unriddle, *learn*[3] to trust.
The great vain man, who fared on costly food,
Whose[4] life was too luxurious to be good ;
Who made his ivory stands with goblets *shine*[5],
And forced his guests to morning draughts of wine ;
Has, with the cup, the graceless custom *lost*[6],
And still he welcomes, but with less of cost.

DEFINITIONS.

Define the following words, and in connection with each write a short sentence illustrating its meaning :—

1. Sumptuary.
2. Surge.
3. Detonate.
4. Invidious.
5. Bruit.
6. Bucolic.
7. Peroration.
8. Truculent.

THEORY OF ARITHMETIC.

1. How do you change a vulgar fraction to a decimal, and why is its value not altered?

2. How do the liquid, ale, and dry gallon, compare with each other ?

3. What is the difference in the mode of computing common discount and banking discount ?

4. How do you find the rate per cent. ; when the principal, time, and amount are given ? Explain the principle.

5. Which is the greater, the square or the square root of a proper fraction ? Why ?

PRACTICAL ARITHMETIC.

1. Divide $39\frac{\frac{2}{3}}{11}$ cwt. by $27\frac{5}{\frac{2}{7}}$. Continue the answer down to ounces avoirdupois.

2. If the expenses of 9 horses for oats be $45 for $4\frac{1}{2}$ months, when the price of oats is $36\frac{2}{3}$ cents per bushel, how many horses will, at that rate, consume the value of $216 in 6 months, when oats sell at 32 cents ?

3. What will be the amount of $1,917.67, on interest from March 17th, 1837, to November 2d, 1845, at 6 per cent.?

4. What must be the face of a bankable note, so that when discounted for 60 days at 5 per cent., the present worth may be $1,200 ?

5. Extract the cube root of $\sqrt{(2.5\times8)}-4$. Continue the result to three places.

MENSURATION.

1. Define a *diagonal*, a *chord*, a *sector*, a *lune*, and a *trapezoid*.

2. The hypothenuse of a right-angled triangle is 16 perches, and the base 14 perches ; what is the side of the inscribed square ?

3. Two brothers live from Philadelphia, one 60 miles east, and the other 80 miles north ; what distance will they have to travel in a direct line from house to house if they wish to meet each other half way ?

4. What will be the cost of paving a circular walk, the diameter of the inner circle being $9\frac{1}{2}$ and the outer $21\frac{3}{4}$ feet, at 10 cents per square foot?

5. The chord of the whole arc is $50\frac{4}{5}$ yards, and the chord of half the arc is $33\frac{1}{5}$ yards; required the length of the arc.

ALGEBRA.

1. Define the terms *coefficient* and *exponent*. Give an example of each.

2. From what principles or axioms is the first method of elimination derived?

3. From the sum of $4\frac{1}{2}ax-7bc+3\frac{1}{4}dx-y$, $6ax-4y+8bc-dx$, and $3bc-7ax-5y+8dx$, take the sum of $7\frac{1}{2}dx-5ax+8bc-7y$ and $11y+15bc-4ax-5dx$.

4. Divide $b^6-3b^4x^2+3b^2x^4-x^6$ by $3bx^2-x^3+b^3-3b^2x$.

5. Extract the square root of $9x^4-12x^3y+4x^2y^2+6x^2-4xy+1$.

6. If the numerator of a certain fraction be increased by 2, the value of the fraction will become one-third, but if the denominator be diminished by 3, the value will become one-fourth. What is the fraction?

Standing	Name	Age	Years Teaching	Residence	Reading	Penmanship	Orthography	Definitions	Geography	History	Constitution	Grammar	Parsing	Arithmetic.—Theory	Arithmetic.—Practical	Algebra	Mensuration	Average
1	Mary McKay, - ·	21	2½	South st., above 11th st.	82	70	72	15	90	87	100	100	90	85	92	70	80	79.5
2	Mary Bell, -	17	¼	715 Lombard st., ab.18th,	85	75	73	65	65	75	100	100	88	76	80	80	60	78.6
3	S. J. McIntire, -	17		20th street, above Race,	62	65	87	20	70	64	80	96	92	80	54	94	92	73.5
4	Mary A. Neath, -	17		S.W. River & Hutton,W.P.	77	90	74	15	70	51	67	90	91	80	80	67	76	71.4
5	Caroline H. Leeds, -	17	½	No. 18 Race street,- -	62	85	72	50	72	69	73	94	82	80	40	50	72	69.3
6	Mary Maxwell, -	18	½	266 S. 12th st. ab. Shippen,	70	70	74	20	48	54	100	100	87	78	50	65	80	68.9
7	Elizabeth O'Neile, -	22	1	136 N. 13th st., ab. Race,	77	90	88	00	72	66	87	94	80	50	80	90	20	68.8
8	Amelia J. Wemmer,	20	3	277 S. Eighth st., - -	85	95	89	56	75	46	77	100	81	50	56	50	24	68.0
9	Anna Anthony, -	18		S. 6th st., below Franklin,	70	55	69	25	63	51	90	86	93	86	82	63	48	67.8
10	M. Elizabeth Weeks,	18	¼	7th bel. Germantown R.	90	75	65	00	70	42	80	90	91	65	72	60	76	67.4
11	Sarah H. Roger, -	18		Carlisle st.,ab. Girard av.	55	60	81	36	45	50	90	90	93	66	86	57	60	66.8
12	Mary Starr, . -	18		118 Chestnut street, -	55	55	74	30	70	74	60	72	83	65	60	65	96	66.1
13	Mary E. Flaherty, -	18		568 S. 4th street, - -	70	55	79	00	68	46	80	94	92	85	52	83	52	65.8
14	Mary J. Louderback,	24	2	233 Spruce street, - -	62	85	64	12	80	83	100	74	75	50	68	50	48	65.5
15	Maggie M. Wildey, -	18		Marlboro' & Frankford R.	67	55	82	20	73	50	80	82	93	100	84	50	12	65.2
16	Lizzie N. Ashman, -	18	¼	109 S. Ninth st. - -	60	65	71	00	65	50	80	100	72	80	60	70	70	64.8
17	Lizzie S. Ashmore, -	17		117 N. 12th st.- - -	77	75	76	20	55	71	100	86	80	85	74	25	08	64.0
18	Sarah J. Rogers, -	17		64 Spruce st. - - -	72	60	75	00	82	25	100	90	65	76	78	65	44	64.0
19	Mary R. Smulling, -	18		122 New Market st.	85	60	71	12	63	48	85	76	93	45	100	53	32	63.3
20	Joanna R. Wolfe, -	17	½	351 N. 2d street, - -	80	55	77	35	55	66	63	96	65	56	54	55	60	62.8
21	Ellen H. Shattuck, -	17		N. E. cor. 16th and Vine,	67	60	76	12	90	58	100	94	70	61	40	20	62	62.3
22	Emma W. Newland,	18		36 N. 9th street, - -	77	70	67	12	71	80	80	94	78	56	40	40	36	61.6
23	A. Lavinia French, -	18		580 N. 7th street, - -	70	50	66	35	36	57	87	82	80	65	66	47	56	61.3
24	Sallie Shattuck,	18		N. E. cor. 16th and Vine,	65	60	52	10	75	67	100	86	85	75	32	30	60	61.3
25	R. F. Hutchinson, -	18		63 Race street, - -	77	70	59	12	82	56	70	68	70	60	52	63	56	61.2
26	Louisa Elmes,- -	17		Walnut ab. Park, W. P.	62	50	81	00	42	34	77	86	80	60	76	58	88	61.1
27	Annie L. Scott, -	17		Washington st., bel. 22d,	75	85	72	35	100	82	30	89	55	80	42	38	08	60.8
28	Mary A. Peltz, -	19	½	188 Spruce street, - -	72	55	68	00	65	68	87	100	72	60	72	40	32	60.8
29	Louisa A. Pichon, -	18		13th st., below Federal, -	75	50	56	12	65	66	87	94	80	80	56	47	22	60.8
30	Sallie J. Earls, -	17		140 S. 5th street, - -	75	80	65	12	65	51	60	86	83	48	68	33	48	59.5
31	Marianna Ireland, -	18		Freedland st. near 20th,	70	70	79	40	95	71	93	100	73	51	26	00	00	59.1
32	M. E. Elsegood, -	17	1	58 George st., ab. 9th, -	80	55	51	28	70	15	80	62	87	70	46	50	70	58.8
33	Sallie S Long,- -	17		208 N. 3d street, - -	75	55	66	12	60	54	10	80	47	78	92	70	44	57.2
34	Elizabeth Kirk, -	18		10 Christian st. bel. Front,	72	60	70	20	72	60	50	70	70	75	36	60	28	57.2
35	Emma M. Hall, -	18		238 S. 2d street, - -	70	60	66	30	53	28	47	90	62	45	64	55	68	56.8
36	Clara Holson, -	17		10 Duke street, N. L. -	67	65	53	10	45	51	70	76	70	75	84	72	00	56.8
37	Caroline McCaffrey,-	18	¼	222 Spruce street, - -	97	75	73	12	55	35	80	90	43	50	64	30	28	56.3
38	Rebecca A. Crawford,	20		408 N. 16th street, - -	75	65	60	20	62	50	70	94	70	63	32	57	08	55.8
39	Mary A. Ryan, :	17	1	186 Ridge avenue, - -	90	80	71	20	70	61	60	80	78	55	40	20	00	55.8

STANDING	NAME.	Age.	Years Teaching.	RESIDENCE.	Reading.	Penmanship.	Orthography.	Definitions.	Geography.	History.	Constitution.	Grammar.	Parsing.	Arithmetic.—Theory.	Arithmetic.—Practical.	Algebra.	Mensuration.	Average.
40	Mary N. Pettit,	19		597 Vine street, ab. 15th,	72	75	68	35	40	00	60	80	97	45	40	60	46	55.2
41	Jane McCune,	19	2	386 S. 3d, ab. Catharine,	70	80	73	12	80	52	47	68	60	50	76	35	00	54.1
42	Fannie Robins,	18		16th st., below Vine,	75	65	31	00	75	45	57	32	68	76	72	25	68	53.0
43	Emma Parmalee,	17	¼	512 Christian street,	77	65	53	10	60	44	80	80	43	35	92	43	00	52.5
44	Hannah D. Atwood,	18		61 N. 8th st.	60	95	57	12	75	55	60	66	85	50	44	15	00	51.8
45	Emma A. Goodrich,	18		26 Ridge avenue,	65	50	60	00	55	45	60	56	77	55	78	45	24	51.7
46	Anna Hutchinson,	17		111 Juniper street,	65	95	57	20	65	16	70	56	50	40	40	30	47	50.1
47	Elizabeth Madden,	18		90 Union street,	65	55	57	12	60	41	17	96	72	55	66	30	24	50.0
48	Sarah J. Bolton,	21	3	514 Green street,	72	60	75	00	85	39	50	90	42	35	62	18	08	48.9
49	Martha Bavington,	19		357 Green street,	67	40	36	12	75	76	40	70	60	50	72	33	00	48.5
50	Eliza J. Steelman,	17		15 Dillwyn street,	50	70	69	00	90	37	57	76	55	45	62	00	20	48.5
51	Alice Rice,	17		394 N. 2d street,	75	50	70	00	48	20	27	70	62	60	56	60	20	47.5
52	Martha McKeever,	17		248 Shippen street,	80	50	63	30	55	35	33	70	55	50	56	30	04	47.0
53	Lizzie J. Good,	17		75 Buttonwood street,	77	65	52	25	32	61	37	72	60	40	54	15	00	45.4
54	Anna Asay,	17		Race above 10th,	72	80	48	00	68	38	80	46	40	00	42	30	45	45.3
55	Lizzie T. Greiner,	20	1	59 South 11th street,	82	70	70	00	74	25	10	70	58	25	34	50	20	45.2
56	Harriet Irwin,	18		Unity street, Frankford,	52	55	69	20	50	42	50	62	63	40	34	00	28	43.5
57	Caroline Irons,	18		35 Callowhill street,	45	60	71	00	50	50	40	54	73	25	52	43	00	43.3
58	Sallie Louisa Lodor,	18		536 Market street,	67	90	78	10	47	20	30	00	62	60	44	33	00	41.6
59	Hannah T. Hilliard,	18		316 Parrish street,	75	65	70	10	88	44	20	32	37	25	30	00	00	37.8
60	Virginia Segan,	17		319 Chestnut street,	55	55	42	15	48	44	37	66	30	40	18	26	08	37.2
61	Hannah Hopper,	21		113 N. 5th street,	55	65	56	25	50	16	60	68	42	35	00	00	00	36.3
62	Fannie E. Hackett,	19		303 Race street,	60	60	53	18	45	31	30	44	28	40	40	20	00	36.1
63	Kate E. Ketler,	17		Marriott st., below 3d,	65	70	70	00	00	24	00	60	58	50	54	17	00	36.0
64	Mary T. Craig,	21	3	461 S. 8th street,	60	60	67	25	65	31	30	46	30	15	00	00	00	33.0
65	Mary J. Wilhelm,	18		Carpenter st., bel. Broad,	67	50	50	05	60	50	10	46	35	00	34	20	00	32.8
66	Adela Goudkop,	20		92 N. 7th street,	45	40	29	20	50	45	73	16	50	10	44	00	00	32.5
67	Caroline Nell,	17	3	7th st., ab. Montgomery,	57	65	28	00	75	31	27	52	38	05	28	00	00	31.2
68	Sarah A. Holt,	19		Locust st., west of 22d,	82	50	25	00	45	20	90	46	20	25	00	00	00	31.0
69	Ellen F. Prescott,	22	1½	Manayunk,	60	40	52	00	40	30	00	52	40	50	34	00	00	30.6
70	Ellen P. Harman,	19	2	Francis and 17th street,	62	50	71	00	00	23	00	54	48	40	44	00	00	30.2
71	Martha R. Parker,	18		27 Spruce street,	57	60	49	00	20	31	47	24	50	20	00	00	00	27.5
72	Ellen Ward,	17		960 N. 2d street,	60	60	62	00	00	10	00	46	45	30	36	00	00	26.8
73	Lizzie P. Hilliard,	23	3	508 N. 9th street,	57	60	51	00	55	32	10	30	17	10	20	00	00	26.8
74	Cordelia Bates,	18		336 Coates, ab. Franklin,	80	45	69	00	22	15	10	36	50	00	00	00	00	25.2
75	Leonora Thompson,	18		323 N. 12th street,	70	75	59	00	28	08	10	00	42	20	00	00	00	24.0
76	Sarah S. Erwin,	28		N. E. cor. 11th & Filbert,	65	65	61	12	26	04	00	16	22	00	00	00	00	20.8
77	Julia A. Thompson,	22		323 N. 12th street,	70	65	63	00	20	10	00	00	41	00	00	00	00	20.7
78	Emma Newton,	17		Kensington.	57	50	57	00	32	00	10	00	23	15	08	15	00	20.5